CHRISTOPHER S. BOND
MISSOURI

COMMITTEES:
APPROPRIATIONS
BANKING, HOUSING AND
URBAN AFFAIRS
SMALL BUSINESS
BUDGET

EX PARTE OR LATE MED

United States Senate

WASHINGTON, DC 2900 KEPFILE COPY ORIGINAL

February 12, 1993

2835 92-235 L 745

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RECEIVED

Federal Communications Commission ATTN: Private Radio Bureau 1919 M Street, N.W. Washington, D.C. 20554

MAR - 8 1993

FEDERAL COMMUNICATIONS COMMISSION OFFICE OF THE SECRETARY

Enclosed are copies of letters received by my office concerning the FCC's proposal to change the frequency allocations for radio-controlled model aircrafts. Because this is an issue over which your department has jurisdiction, I thought you would be interested to know about it.

Many of my constituents are actively involved in the constructing and flying of radio-controlled model aircrafts as an avocation. They are greatly concerned that this change in frequency will interfere with the personal enjoyment of their favorite pastime.

I would greatly appreciate a response to the enclosed letters at your earliest convenience. Please feel free to respond directly my constituents who have been notified of our contact and will be awaiting your reply. Also, please forward a copy of your response to my office.

Singerely

YTIN LOOK

CSB/kk

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MAR - 8 1993

FEDERAL COMMUNICATIONS COMMISSION

OFFICE OF THE SECRETARY

## ROBERT J. SCHUMANN 5400 WARD PARKWAY KANSAS CITY, MO 64112 (816) 561-6311 f/v nites 523-5007

January 29, 1993

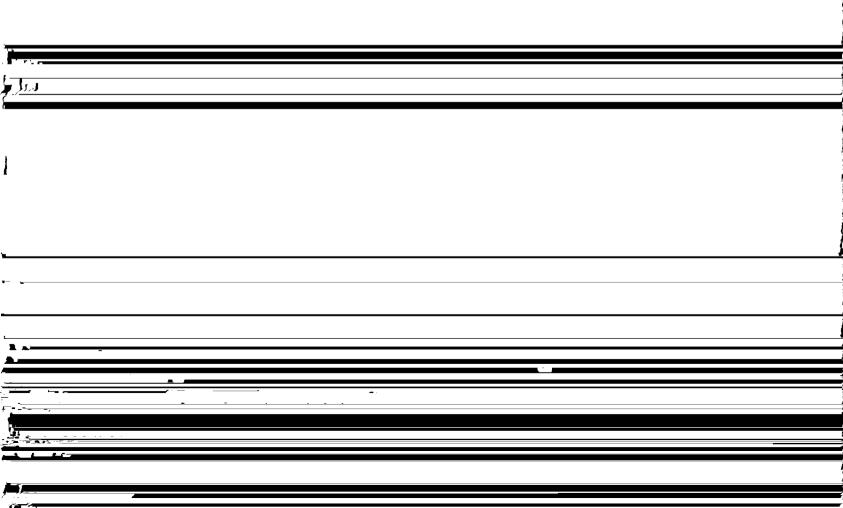
The Honorable Christopher S. Bond 293 Russell Building Washington, D.C. 20510

Re: PR Docket 92-235 Opposition

Dear Senator Bond:

I would like to offer my opposition to the above rule change .

I am a Radio Control modeler with 6 transmitters and 7 receivers and



a bit of money to comply to these requirements.

Mobile phones and mobile cranes certainly can find a frequency space away from the R/C ones.

Sincerely,

(lolog))

January 29, 1993

MAR - 8 1993

The Honorable Christopher S Bond 293 Russell Office Building Washington, DC 20510 FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Dear Christopher S Bond:

I fly model airplanes. I am an all season flyer, which means I fly every month of the year. I am an officer of the local club "KC Northern Knights Model Airplane Club", who flies on public parks land. The "Northern Knights" has a membership of 82 persons including juniors and is only one club of about 9 in the Kansas City area.

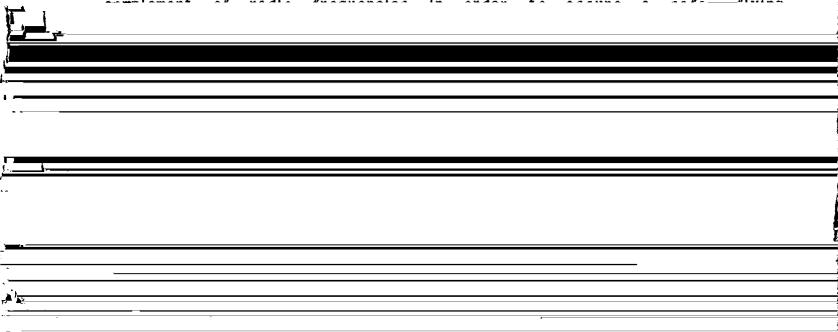
When we fly our radio controlled model airplanes, we go to great lengths to assure the safety of operators, bystanders, and personal property. Our main safety precaution involve the careful coordination and use of the radio control frequencies.

I am very concerened about proposed rules that are currently under consideration by the Federal Communications Commission(FCC). The proceeding is PR Docket 92-235. If adopted the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and liability for controlling model airplanes.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and cause interference to radio control operations. I am told that of the 50 frequencies that are presently available for radio control model airplanes, only 19 frequencies will be left if these new rules are adopted.

Under 1991 regulations we had to update all radio equipment and now under the proposed regulations all five of my radio's would be inoperable.

Please understand that the average model airplane has a wingspan of 6 feet and weighs under 10 pounds, but may get to 12 feet wingspan and weigh under 40 pounds. The models themselves are expensive and time consuming to build; but more to the point are capable of causing property damage, serious injury, or even death if radio interference causes the operator to lose control of the model. We often fly our models at organized events where hundreds of operators participate. We need the use of our full



January 26, 1993
RECEIVED

The Honorable Christopher S. Rond EXPARTE OR LATE FILED Washington, D.C. 20510-2503

MAR - 8 1993

Dear Senator Bond:

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

I am an avid remote control airplane modeler. I have been in the hobby for eleven years and spend a great deal of time and money on the hobby. I am a member of a local club as well as the national organization, the Academy of Model Aeronautics. I derive many hours of enjoyment from this pastime and would like to continue doing so.

The Federal Communications Commission has recently proposed PR Docket 92-235, which would affect remote controlled modeling greatly. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

The radio control frequencies that we use are in the 72-75 MHz band which are presently set equally between commercial private land mobile dispatch frequencies. The current frequency spacing is enough to keep our planes from interfering with commercial frequencies and vice versa.

Now the FCC wants to create more land mobile frequencies which would be placed between our current channels and the commercial frequencies. Therefore, the newly inserted frequencies would interfere with the radio controlled airplanes. This would affect 31 of our current channels, making it unsafe to fly and those affected channels useless.

Remote controlled flying is based on safety first in the air.

This safety would be jeopardized with the newer additional frequencies. It is important to note that many of the planes that

fly have very long wingspans, and weigh up to 40 pounds, which could cause bodily harm or property damage if their frequency is interfered. These models are expensive and more importantly are flown at organized events in which many participants and spectators attend. We need the use of our full complement of radio frequencies in order to assure safety for all involved.

I do not think it is wise of the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers. The FCC may not think we are as important as business users of radios, but we have a considerable investment in our models and in our radio equipment. The hobby provides many hours of enjoyment to thousands of people like myself and contributes to the advancement and development of the commercial aviation industry.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposed PR Docket 92-235 affecting the 72-76 MHz band.

Sincerely,

[] Hen Moore

J. GLEN MODRE 1911 N.E. 555T K.C., MO 64118

PECEIVED

January 20, 1993

MAR - 8 1993

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Honorable Christopher (Kit) Bond United States Senate Washington, DC 20510

Dear Senator:

I have spent many years of enjoyment constructing and operating radio controlled model airplanes. I belong to several local clubs whose members share a common interest. Between the building tools, airplane kits, radios, engines, finishing materials, all add up to a large investment. Joy abounds by the camaraderie that develops between father and son or daughter, grandfather and grandchildren by building and operating their model together. Kids sharing the hobby with an adult, learn how to use their hands and minds. Kids in R/C hobby aren't gang members!

I am very concerned about what has been proposed by the Federal Communications Commission. The proceeding is PR Docket 92-235. If adopted the rule will greatly reduce the usability of frequencies currently assigned for radio control model usage. It will increase the risk of accidents and attendant liability.

Our radio controlled frequencies are in the 72/76 MHz band. This band is primarily used for private land mobile dispatch operations. Presently our radio-control frequencies in this band are far enough apart from the land mobile frequencies that we co-exist by not interfering with one another.

The Notice Of Proposed Rule Making (NOPRM) in PR Docket 92-235 replaces part 90 of the rules with a new Part 88. Part 90 allows safe use of radio controlled aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiast. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eradicating safe use of at least 31 of 50 channels on the 72 Mhz band for R/C aircraft and, 10 of 30 frequencies on the 75 Mhz band for R/C cars and boats.

In supervised R/C model operation safety is paramount, for the spectators, operators, and property. Coordination of radio frequencies used simultaneously dictates our safety control and are strictly observed. Reduction of frequencies increases chances of accidents due to adjacent channel interference.

I think its unfair for the FCC to consider expanding the operations of land mobile radio users at the expense of the radio control modelers. The FCC must think we are not as worthy of radio frequency usage as the user of business radio. As individuals our power is how we vote, as an industry we contribute a sizable income to our nation. of what we do contributes to the sales of drugs or the delinquency of children. The mobile communications industry can't say that. Is this going to be another scenario of the big guy and his paid lobbyist wins again? I hope not because I have faith in you that's why I'm appealing to you for your help

Please help me continue the safe enjoyment of my by not allowing the FCC to carry out its proposal PR Docket 92-235 for the 72/76 Mhz band. We need your help urgently because the FCC has a deadline of February 26, 1993 after which it may become more difficult to avoid halting these proposals from going into effect.

Cordially.

Le C Mederil ama 67477 Amaa 8643

LESLIE A. HEIDERICH 2020 BRUTUS CT. FENTON, MO. 63026

**FECEIVED** 

January 20, 1993

MAR - 8 1993

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Honorable Christopher (Kit) Bond United States Senate Washington, DC 20510

Dear Senator:

I have spent many years of enjoyment constructing and operating radio controlled model airplanes. I belong to several local clubs whose members share a common interest. Between the building tools, airplane kits, radios, engines, finishing materials, all add up to a large investment. Joy abounds by the camaraderie that develops between father and son or daughter, grandfather and grandchildren by building and operating their model together. Kids sharing the hobby with an adult, learn how to use their hands and minds. Kids in R/C hobby aren't gang members!

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In supervised R/C model operation safety is paramount, for the spectators, operators, and property. Coordination of radio frequencies used simultaneously dictates our safety control and are strictly observed. Reduction of frequencies increases chances of accidents due to adjacent channel interference. I think its unfair for the FCC to consider expanding the operations of land mobile radio users at the expense of the radio control modelers. The FCC must think we are not as worthy of radio frequency usage as the user of business radio. As individuals our power is how we vote, as an industry we contribute a sizable income to our nation. None of what we do contributes to the sales of drugs or the delinquency of children. The mobile communications industry can't say that. Is this going to be another scenario of the big guy and his paid lobbyist wins again? I hope not because I have faith in you that's why I'm appealing to you for your help

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposal PR Docket 92-235 for the 72/76 Mhz band. We need your help urgently because the FCC has a deadline of February 26, 1993 after which it may become more difficult to avoid halting these proposals from going into effect.

Cordially,

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January 20, 1993

MAR - 8 1993

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Honorable Christopher (Kit) Bond United States Senate Washington, DC 20510

Dear Senator:

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In supervised R/C model operation safety is paramount, for the spectators, operators, and property. Coordination of radio frequencies used simultaneously dictates our safety control and are strictly observed. Reduction of frequencies increases chances of accidents due to adjacent channel interference. I think its unfair for the FCC to consider expanding the operations of land mobile radio users at the expense of the radio control modelers. The FCC must think we are not as worthy of radio frequency usage as the user of business radio. As individuals our power is how we vote, as an industry we contribute a sizable income to our nation. None of what we do contributes to the sales of drugs or the delinquency of children. The mobile communications industry can't say that. Is this going to be another scenario of the big guy and his paid lobbyist wins again? I hope not because I have faith in you that's why I'm appealing to you for your help

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposal PR Docket 92-235 for the 72/76 Mhz band. We need your help urgently because the FCC has a deadline of February 26, 1993 after which it may become more difficult to avoid halting these proposals from going into effect.

Cordially,

Eddie W. Roland

P. S. Thanks for doing a fine Job, so for!

EDDIE W. KOLAND 9838 CHESTERTON OR. AFFTON, MO. 63123

RECEIVED

January 20, 1993

MAR - 8 1993)

Honorable Christopher (Kit) Bond United States Senate Washington, DC 20510

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Dear Senator:

I have spent many years of enjoyment constructing and operating radio controlled model airplanes. I belong to several local clubs whose members share a common interest.

I think its unfair for the FCC to consider expanding the operations of land mobile radio users at the expense of the radio control modelers. The FCC must think we are not as worthy of radio frequency usage as the user of business radio. As individuals our power is how we vote, as an industry we contribute a sizable income to our nation. None of what we do contributes to the sales of drugs or the delinquency of children. The mobile communications industry can't say that. Is this going to be another scenario of the big guy and his paid lobbyist wins again? I hope not because I have faith in you that's why I'm appealing to you for your help

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Cordially,

William K. Godwin 16536 Thunderhead Canyon Ct. Eliastica Missouri 63011

PECEIVED

The Honorable Christopher S. Bond EX PARTE OR LATE FILED 293 Russell Office Building Washington, DC 20510-2503

MAR - 8 1993

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Dear Senator Christopher S. Bond

I have been interested in aviation for as long as I can remember. I am very active in two local clubs whose members enjoy constructing and operating radio-controlled model airplanes. I personally own 2 radios, 7 R/C models and have a workshop full of other products necessary to operating my models.

I am very concerned about the proposed rule that is currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted the new rule will greatly reduce the usability of frequencies currently assigned for the B/C

RECEIVED

January 20, 1993

MAR - 8 1993

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Honorable Christopher (Kit) Bond United States Senate Washington, DC 20510

Dear Senator:

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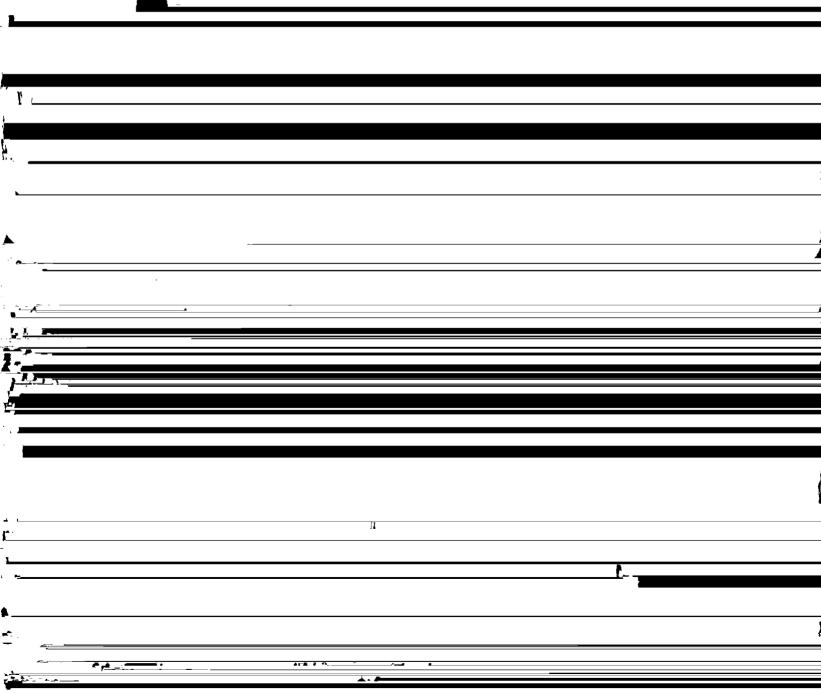
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Please help me continue the safe enjoyment of my pastime



MAR - 8 1993

W. Riley Franklin 13146 Strawberry Way St. Louis, MO 63146

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

JAN 30, 1293

DEAR SENATOR BOND.

I AM VERY CONCERNED ABOUT PROPOSED RULES CURRENTLY UNDER CONSIDERATION BY THE FCC (REFERENCE P.R. DOCKET 92-235), THE NEW RULES, IF ADOPTED, WILL GREATLY REDUCE THE USABILITY OF FREQUENCIES CURRENTLY ASSIGNED FOR MODEL AIRCRAFT USE, MODEOVER THEY WILL SERIOUSLY INCREASE THE RISK OF ACCIDENTS AND LIABILITY FOR CONTROLLING MODELS IN FLIGHT.

I AM A MEMBER OF THE SPIRITS
OF ST. LOUIS RADIO CONTROL FLYING CLUB
AND HAVE ENJOYED THIS HOBBY FOR
OVER 20 YEARS. SEVERAL OF OUT
MEMBERS, INCLUDING MY SELF, ARE
"GIANT SCALE" ENTHUSIASTS. THE MUDELS
WE FLY ARE DEFINITELY NOT TOYS—
THEY HAVE WING SPANS OF 8 TO 10
FEET AND WEIGH 18 TO 24 POUNDS.
OUR CLUB HAS MAINTAINED AN
EXCELLENT SAFETY RECORD UP TO
NOW, BUT UNDER THE NEW FREQUENCY
PLAN PROPOSED BY THE F.C. MANY
1 AND MORILE FREQUENCIES WILL BE

INTERFERENCE IS VERY LIKELY, WHEN
THIS HAPPENS CONTROL OF THE MODEL
1S LOST CAUSING A CRASH WITH
POSSIBLE PROPERTY DAMAGE OR
SERIOUS INSURY TO SPECTATORS
I DO NOT THINK IT IS WISE OF
THE FOR TO SPECK TO IMPROVE OPERATING

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MAR - 8 1993

January 20, 1993

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Honorable Christopher (Kit) Bond United States Senate Washington, DC 20510

Dear Senator:

I have spent many years of enjoyment constructing and operating radio controlled model airplanes. I belong to several local clubs whose members share a common interest. Between the building tools, airplane kits, radios, engines, finishing materials, all add up to a large investment. Joy abounds by the camaraderie that develops between father and son or daughter, grandfather and grandchildren by building and operating their model together. Kids sharing the hobby with an adult, learn how to use their hands and minds. Kids in R/C hobby aren't gang members!

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In supervised R/C model operation safety is paramount, for the spectators, operators, and property. Coordination of radio frequencies used simultaneously dictates our safety control and are strictly observed. Reduction of frequencies increases chances of accidents due to adjacent channel interference.

RECEIVED

MAR - 8 1993

February 08, 1993

The Honorable Christopher S. Bond United States Senate Hart Senate Office Building Washington D.C. 20510 FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Dear Senator Bond:

I am an active member in our local club of thirty five radio controlled modeler's. I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.——

Our radio control frequencies are in the 72 - 76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart form the land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and cause interference to radio control operations. I am told that of the 50 frequencies that are presently available for radio control of model airplanes, only 19 frequencies will be left if these new rules are adopted.

When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that many model airplanes have wing spans up to 10 feet and weigh as much as 30 to 40 pounds. The models themselves are expensive to build; but more to the point, they are capable of causing property damage, serious injury, or even death if radio interference causes the operator to lose control of the craft. We often fly our models at organized events and contests where hundreds of operators participate. We need the use of our full complement of radio frequencies in order to assure a safe flying environment.

I myself have several hundred dollars invested in radio equipment that would be rendered unusable if this frequency assignment is adopted. Since the proposed frequencies are so close, interference will occur and render most model frequencies unusable.

I do not think it is wise of the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers. The FCC may not think we are as important as business users of radios, but we have a considerable investment in our models and in our radio equipment. The hobby provides many hours of enjoyment to thousands of people like myself and contributes to the advancement and development of the commercial aviation industry.

Please help me continue the safe enjoyment of my pastime by not allowing

# EX PARTE OR LATE FILED PECEIVED

The Honorable Kit Bond U. S. House of Representatives Washington D. C. 20510

MAR - 8 1993

Dear Senator Bond:

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

I have been interested in aviation for as long as I can remember. I am very active with a local club whose members enjoy constructing and operating radio controlled airplanes. Members of the local model airplane club offer countless hours of free instruction and building tips to assist new pilots. The club also puts on one heck of a model airplane show each summer at a commercial airport, participates in Memorial Day festivities at our local airport, visits grade schools for demonstrations, travels around the state participating in other clubs events and lots, lots more.

I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

Our radio control frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

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When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of radio control frequencies. If the number of frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety greatly increased.

Please understand that many model airplanes have a wingspan of up to 10 feet and weigh as much as 30-40 pounds. The models themselves are expensive to build; but more to the point, they are capable of causing property damage, serious injury, or even death if radio interference causes the operator to lose control of the craft. We need use of our full compliment of radio frequencies in order to assure a safe flying environment.

I do not think it is wise of the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers. The FCC may not think we are as important as business users of radios, but we have a considerable investment in our models and our radio equipment. I currently operate 3 radios with an average cost of \$250.00 or more. The hobby provides many hours of enjoyment for thousands of people and contributes to the advancement and development of the commercial aviation industry.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely
Bul Ester

**Bud Estes** 

Bud Estes

1805 Kathy Drive Columbia, MO 65203

RECEIVED

MAR - 8 1993

FEDERAL COMMUNICATIONS COMMISSION OFFICE OF THE SECRETARY

January 25, 1993

The Honorable Christopher S. Bond 293 Russell Building Washington DC 20510-2503

Dear Senator Bond:

I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of radio frequencies currently assigned for model airplane use and increase the risk of accidents and attendant liability for controlling model airplanes.

I am currently acitve in the Radio Control Model airplane hobby and derive a great deal of enjoyment from building and flying radio controlled model airplanes. This is a great father/son hobby and many young people also enjoy this hobby. Many young people who participate in this hobby go on to become major figures in in the aviation world.

In order to ensure the safety of this hobby, modelers are currently asigned radio frequencies in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. Our radio control frequencies in this band are currently far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

#### BUT THAT IS ABOUT TO CHANGE!

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio frequencies we use with the result being interference to our radio control frequencies. I am told that of the 50 frequencies that are presently available for radio control of model airplanes, only 19 frequencies will be left and safe to use if the new rules are adopted.

Please understand that many model airplanes have wing spans of 10 feet and weigh as much as 40 pounds. These models are not only expensive to build but are capable of causing property damage, serious injury, or even death if radio interference causes the operator to lose control of the

craft. We often fly our models at organized events and contests were hundreds of operators and spectators participate. We need the use of our full complement of radio frequencies in order to assure a safe flying environment.

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Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely,

Robert M. Brightwell

5104 Norfleet

Independence, Missouri 64055

FLYING TIGERS AIR SHOW TEAM

PECEIVED

MAR - 8 1993

The Honorable Christopher S. Bond FEDERAL COMMUNICATIONS COMMISSION 293 Russell Building Washington DC 20510

OFFICE OF THE SECRETARY

Model Flight Demonstrations and Aeronautical Lectures Call Bill Langley 816-539-2843

Dear Senator Bond:

I derive many hours of enjoyment from constructing and flying radio controlled airplanes. I belong to a local club whose members enjoy putting on demonstrations and aeronautical lectures to area schools and to the general public.

I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the useability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

Our radio frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to radio control frequencies and cause interference to radio control operations. I am told that of the fifty frequencies that are presently available for radio control of model airplanes, only 19 frequencies will be left if these new rules are adopted.

When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of useable frequencies is